ISSUE 1

WE TALK TECH

HIGH TECHNOLOGY NEWSLETTER

STATE OF THE ART
TECHNICAL SUPPORT CENTER
LOCATED IN OUR NEW COTTAGE GROVE FACILITY

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WERNER Electric Supply

SPECIALIST SPOTLIGHT

Tom Giorgi, Software Product Manager

Tom has worked for Werner Electric since November 1999. He is educated as an electrical engineer and trained as a certified Rockwell Software Specialist who has enjoyed an incredible variety of projects, working with many Werner customers.

Profile:

Married to Erica for 10 Years

Children: Roxanna, Age 5 ½
Charlotte, Age 3

Home :
Roseville, Minnesota

Education:
University of Minnesota

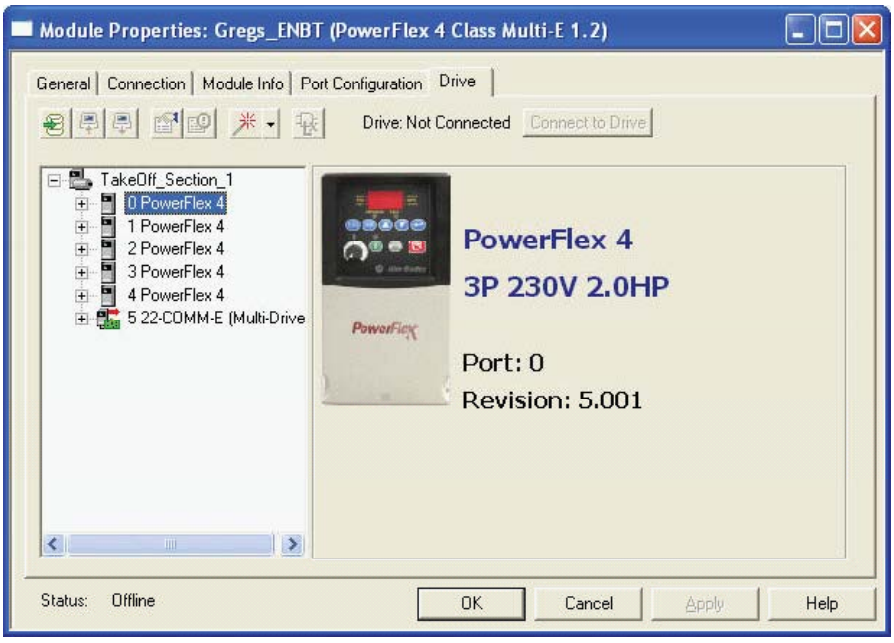
Family Interests:
Avid Minnesota Gopher Fans (Erica is U of M Alumni, too). Walks, Swimming, Swinging, Being a tourist in the Twin Cities visiting the Minnesota Landscape Arboretum, Como Zoo, the Minnesota Zoo, and various parks and preserves.

Hobbies:
Cook and Bake for the girls and extended family in Mt. Iron, MN, Red Wing, MN and Fargo, ND.

HOT TECH TOPIC

PowerFlex 4-Class Multi-Drive Add-on Profile for RSLogix 5000

- Configure up to five Power-Flex 4-Class drives on one node
- Add a new drive by selecting the drive type or duplicating an existing on in the Module Definition.
- Automatically generates tag names for all 5 drives.
- Configure parameters in all 5 drives via one Add-on Profile.
- Configuration of all 5 drives in saved in the RSLogix 5000 ACD file



The Werner Technical Support Center has created a user manual that gives detailed step-by-step instructions on how to use the PowerFlex 4-Class Multi-Drive Add-on Profile.

Download the User Manual at:

http://www.wernermn.com/talktech

ROCKWELL AUTOMATION TECHCONNECT

TechConnect Support - Just A Call Away!

With ***TechConnect Support***, your company has unlimited, real-time access to Rockwell Automation's global network of SCP certified Customer Support Centers and technical resources. Whether you need help installing, configuring and maintaining equipment and software, obtaining software updates, diagnosing and fixing operating problems, or performing basic programming tasks, we deliver the tools and answers you need to get and keep your operation up and running.

Benefits include:

- Simplify technical support management: one agreement per site or enterprise (multiple sites), coverage based on product families (not individual products), easily change coverage during agreement term.
- Reduce downtime, improve productivity, and reduce time to market by obtaining the technical information you need when you need it.

To request a TechConnect quote for your company, please call Angela Schmollinger at 651-769-8137 or via email aschmollinger@wernerelec.com with the level of support you are interested in. Ask how you can receive a comparison quote for your added convenience!

FEATURES	SERVICE LEVELS		
	PriorityConnect	DirectConnect	eConnect
Real-time Phone Support (8am-5pm in your time zone, M-F)	Unlimited cases; routed to senior, systems support specialists	Unlimited cases; routed to first available support specialists	No
Screen Sharing for Expedited Issue Resolution (NEW)	Yes	Yes	No
Support for Discrete and Process Systems (NEW)	Yes	No	No
Priority Case Handling	Yes	No	No
Proactive Case Resolution and Follow Up	Yes	No	No
Case Management Web Site	Yes	No	No
Knowledgebase On-Line Support Request	Yes	Yes	Yes
Access to Restricted Knowledgebase Content	Yes	Yes	Yes
Software and Logix Firmware Updates	Disc and web download	Disc and web download	Web only
Technical Reference Library DVD	Yes	Yes	Yes
24x7x365 Phone Support Upgrade	Yes	Yes	No

TECHNICAL SUPPORT CENTER

Technology can make your work easier and your company more productive. It can also present some challenges. The Werner Technical Support Center makes it easier for our partners to get the most from the latest technology. That's one reason Werner Electric Supply is your competitive advantage.

One call to the TSC puts you in touch with specialists trained by the manufacturers to give you application support, help with technical troubleshooting, and provide on-site assistance. We even offer regular training sessions that cover your most common issues. Or, we can work with you to develop customized training tailored to your specific application.

PRODUCT APPLICATION SUPPORT:

Look to Werner for help architecting your system and application support for everything from basic PLCs to the most sophisticated software.

- Motion Control
- Motor Control
- Variable Speed Drives
- Software
- Vision Systems
- PLCs
- HMI

TECHNICAL TROUBLESHOOTING:

We know how important it is to keep your plant running. The Werner Technical Support Center is here to help with:

- Hardware Configuration
- Software Configuration
- Diagnostics
- Process Troubleshooting

ON-SITE ASSISTANCE:

When the job calls for more than phone or e-mail support, the Werner Technical Support Center staff is available for on-site assistance. Whether you have issues with a new installation or legacy technologies, you can count on us for hands-on help. If we need to track trends or collect data over time, we can also help with things like remote monitoring.

Give the Werner Technical Support Center a call at:
651-769-2815 or 1-800-POWER99 (1-800-769-3799)

Or Email them at:
TSC@WernerElec.com

WEB REPORTING FOR MANUFACTURING

FactoryTalk® VantagePoint

FactoryTalk® VantagePoint provides unified access to virtually all manufacturing/ plant data sources. It produces web-based reports, such as dashboards, trends, X-Y plots, Microsoft® Excel reports and more. They can be used by manufacturing operators, engineers, supervisors, management and executives throughout a plant – to manage cost, quality, production, assets and resources more effectively.

FactoryTalk® VantagePoint is configured to connect to Logix and FactoryTalk® Historian so users can begin producing meaningful, pre-configured reports almost immediately. With FactoryTalk® VantagePoint, time-to-value is measured in hours, not days or weeks.

FactoryTalk VantagePoint is an application integration platform combining current and legacy systems in a heterogeneous manufacturing environment to create a virtual, homogeneous data source for plant-wide reporting.

FactoryTalk VantagePoint provides access to a variety of data sources, aggregates and analyzes the information into web-based reports leading to greater manufacturing effectiveness and IT agility.

Advantages

- Standard connectors to real-time data via FactoryTalk® Live Data (Logix, PLC/SLC, FactoryTalk® View, 3rd-party controllers, etc.) and historical data via FactoryTalk® Historian PLUS connectivity to other real-time and historical data sources.
- All manufacturing data is accessible in real-time.
- All you need is a web browser to view published reports, current dashboards, and real-time KPIs.
- Time-to-value: Pre-configured reports, trends and dashboards provide out-of-the-box functionality in hours; create your own on the first day of use.
- Published reports are always current – to maximize productivity and minimize cost.
- Drag-and-drop functionality lets you overlay equipment, line and plant trends for comparison and optimization.

Download the On-Demand Product Demo & Product Profile at:

http://www.wernermn.com/techtalk

DRIVES

Constant Volume Air Handling Upgrade Package

Help increase your overall energy savings by using a product that will not interfere with your existing HVAC system. The FanMaster™ energy saving package is that product, developed by a company founded on controlling motors. Saving energy can be easy.

Providing you with an easy upgrade to your Heating, Ventilation and Air Conditioning (HVAC) equipment, the Allen-Bradley FanMaster™ energy saving package converts a constant volume air handler to variable air flow without changes to your existing mechanical and controls systems. (benefits on next page) ▸

FanMaster™ Benefits

- Convert a constant-volume HVAC air handler to variable air flow with the FanMaster package and a PowerFlex® 400 AC drive
    - Temperature variations similar to temperatures present in your current air handling system
- Distribute heating and cooling BTUs in the same proportion as the original system design, using less fan energy
- Demand ventilation control of Carbon Dioxide
    - Minimizes outside air while providing good air quality
    - Lower heating and cooling energy consumption
- Calculate potential savings for your specific application, not just industry averages
- Run fans at optimal speed using the patent pending algorithms

Energy Savings from FanMaster™

Constant volume HVAC applications are an ideal spot for potential energy savings using variable frequency drives (VFDs). Moving air in HVAC applications typically involves a motor running at full speed. With the motors as the driving force behind HVAC applications, improving your motor control performance and efficiency will mean better production efficiency. With variable frequency drives you can see a measurable impact on energy use and operational efficiency

The FanMaster energy saving package is designed to deliver more energy savings at a fraction of the cost when compared to a traditional hardware retrofit solution.

Help reduce your overall energy savings by using a product that will not interfere with your existing HVAC system. The FanMaster energy saving package is that product, developed by a company founded on controlling motors. Saving energy can be easy.

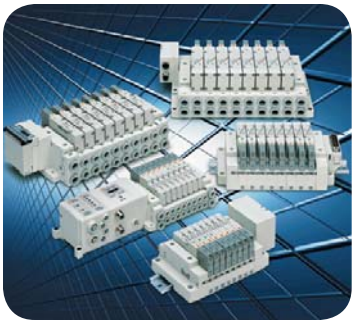
Get the Calculator FREE!

http://www.wernermn.com/fanmaster_calc

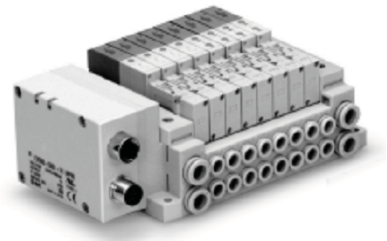
For more information contact **Gary Woltersdorf** - Product Manager (Drives/VFD Products)
Gary can be contacted at: **651.769.8051** or email: **gwoltersdorf@wernerelec.com**

SMC SERIES SV VALVES 1000/2000/3000/4000

New Concept Connector Type Manifolds

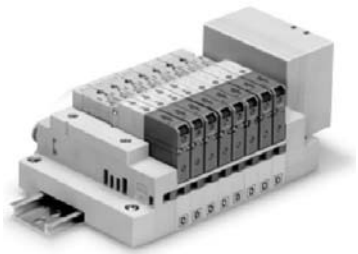


The use as a multi-pin connector to replace wiring inside manifold blocks provides flexibility when adding stations or changing manifold configuration. This connector is used for both serial and parallel wiring, as you add manifold blocks, they are sequentially assigned pins on the connector. This makes it completely unnecessary to disassemble the connector unit.



Tie Rod Based

The SV series valves come in two styles, Cassette Base and Tie Rod Base. Tie-rod base manifolds are available in all 4 sizes. This design utilizes conventional tie-rod technology. Cassette Base units use a din-rail and snap type connection method. Cassette is only available in the 1000 and 2000 sizes.

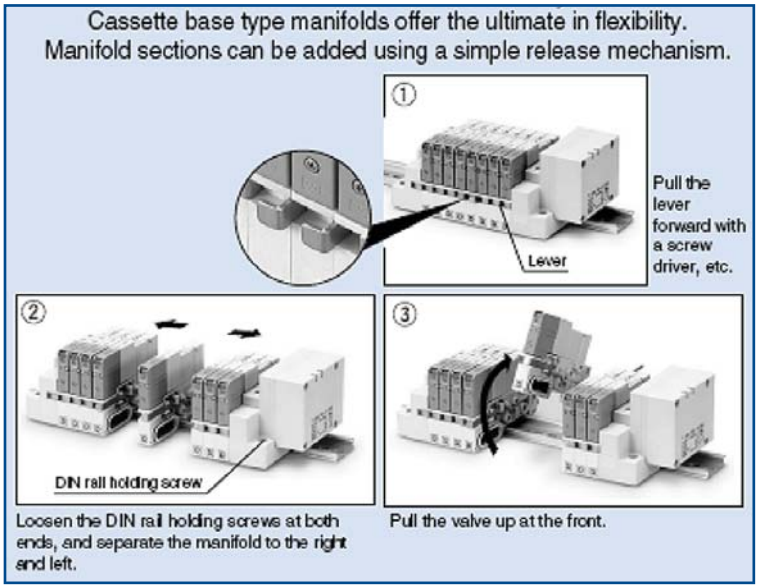


Cassette Based

The SV series valves have a wide range of options making it the most (continued on next page) ▸

versatile valve SMC has to offer. We can incorporate serial communication like Device Net, Control Net, and EtherNet, just to name a few. It also has two types of communication modules, the Decentralized EX500 and the Centralized EX250. There are a wide variety of hardwire connections as well. 25 pin D-Sub, 26 pin circular, ribbon cable and individual M12 connections.

Werner Electric Supply is currently stocking the SV series tie-rod base products and is authorized to assemble these valves locally for quicker deliveries. Please contact your account manager or **Eric Stensrud**, our resident pneumatic specialist, with any questions.


Cassette base type manifolds offer the ultimate in flexibility.
Manifold sections can be added using a simple release mechanism.
①
Lever
Pull the lever forward with a screw driver, etc.
②
DIN rail holding screw
Loosen the DIN rail holding screws at both ends, and separate the manifold to the right and left.
③
Pull the valve up at the front.

Eric Stensrud can be contacted at: **651.769.8042** or email: **estensrud@wernerelec.com**

PANELVIEW COMPONENT

Operator Interface Terminals

Addressing the need for easy-to-use, competitively priced operator interface terminals, Rockwell Automation introduces the PanelView Component family. Terminal sizes are 2", 3", 6", and 10". All sizes are in stock, demo models are available for use at your facility.

Contact us for an on site demonstration of the effectiveness and utility built into these new products.

Important Features

- Developed for use with Allen-Bradley MicroLogix and SLC 500 controllers
- Supports Serial and Ethernet communications to MicroLogix and SLC 500 (no Ethernet and limited serial communication to ControlLogix / CompactLogix controllers)
- Development software is built into each PanelView Component terminal, eliminating the need to install software on PC
- Multi-vendor communications, including Modbus, Modbus/TCP, etc.
- Screen security restricts access to only authorized personnel
- Integrated clamps provide easy, snap-in installation
- Alarm capabilities allow you to review alarm status and history
- Basic recipe to upload or download multiple values in a single operation
- Unicode Language Switching, provides information in local language

OVERLOAD RELAY W/ ETHERNET/IP

E1 Plus Electronic Overload Relay EtherNet/IP® Communication Module

Seamless deployment of motor starters on Ethernet based communication architectures is cost effectively accomplished with the Allen-Bradley® E1 Plus electronic overload relay and the optional EtherNet/IP communication module accessory from Rockwell Automation. Streamline your processes with better control, protection, monitoring, and diagnostic capabilities for improved operating efficiency.

- ***EtherNet/IP network communication***
  - Delivers direct access to motor performance and diagnostic data on an Ethernet based network in addition to seamless control
  - Supports I/O and explicit messaging for data access by a programmable automation controller
  - Contains predefined ControlLogix® style tags for direct software access
- ***Integrated web and e-mail server***
  - Contains a web server to allow users to read information and configure parameters via a web browser
  - Uses a simple mail transfer protocol (SMTP) server to send e-mail or text messages in the event of a warning or trip condition

Key Benefits

- ***Compact size***
  - Direct mounting to the left side of E1 Plus overload relay only adds 22 mm to width
- ***Simplifies Control***
  - Side-mount modules electronically interface with E1 Plus overload relay
  - All control circuit connections are made at E1 Plus overload relay terminals
- ***Includes integrated I/O***
  - Provides convenient local termination of motor-related inputs (2)and outputs (1), simplifying the control architecture
- ***Provides operational and diagnostic data***
  - Average motor current
  - Percentage of thermal capacity usage
  - Device status
  - Trip and warning identification
  - Trip history
- ***Expands protective functions***
  - Overload warning
  - Jam protection
  - Underload warning

MOTION

Mechatronics Matters

As machine builders continue to tap the benefits offered by today's advanced automation, they are looking for ways to more effectively link the mechanical and control worlds. One approach that continues to gain momentum is ***mechatronics*** — the combination of mechanical and electrical engineering. The fundamental attraction behind this design approach is that it addresses the key desires of machine builders, including the need for greater innovation, more optimized performance, faster time to market and reduced business risk.

New software tools, such as ***Motion Analyzer***, help machine builders reap the full benefits of mechatronics by making it faster and easier to select, size and optimize motion control systems and as a result help minimize errors and reduce design time.

MotionAnalyzer

MotionAnalyzer software from Rockwell Automation helps minimize design risk and speed time to market by providing tools that analyze design alternatives for motion control applications. In addition to its sizing, selection, optimization (continued on next page) ▸

and simulation capabilities, Motion Analyzer offers other performance evaluation features including ratio, torque and tolerance analysis.

- ***Ratio analysis*** helps mechanical design engineers make a mechatronic selection of gearboxes, timing belts and ball screws.
- ***Torque analysis*** provides a "sanity" check by showing where the torque produced by the motor is consumed
- ***Tolerance analysis*** provides application data, such as move time, mass, losses and ambient temperature, to be plotted against "health parameters" for the system.
- ***Simulation/Tuning analysis*** helps OEMs determine machine performance criteria such as parts-per-minute, dynamic stability, accuracy, and settling time, and it gives design engineers the most realistic prediction of system performance short of building a prototype.
- ***Inertia Calculator/SolidWorks import wizard*** allows you to import static inertia directly to Motion Analyzer from Solidwork models.

MACHINE SAFETY

GuardShield Micro400 Safety Light Curtain

The Allen-Bradley® Guardmaster® GuardShield Micro 400 safety light curtain is an economical, Type 4, three box safety light curtain designed for small assembly machines in ambient operating environments, or where mounting space is limited. These GuardShield Micro 400 safety light curtains are general purpose presence sensing devices designed for use on hazardous machinery for point of operation guarding. Offered in 14 mm and 30 mm resolutions, this SIL 3 rated safety solution offers expanded functionality via the MSR42 controller. The MSR42 controller is also a multi function safety module with hard wired or software configurable operating modes. The MSR42 controller has two PNP OSSDs which can be connected directly to the final switching device. If safety relay outputs are required, up to three safety relay expansion modules (MSR45E) may be easily connected to the controller.

Product details

The GuardShield Micro 400 light curtain, connected to an MSR42 controller, improves flexibility for applications requiring two or three light curtains or other safety devices such as safety laser scanners, E-Stops or safety switches by simple configuration of the general purpose MSR42 inputs. These configurable inputs result in a reduction of the overall system wiring and simplify the safety circuit resulting in lower overall cost for a multiple safety device system.

In addition, these small profile safety light curtains fit into areas of machinery or equipment where competitor's light curtains may not. The GuardShield Micro 400 used in conjunction with the MSR42 controller has a SIL 3 rating per IEC61508. And since these light curtains meet IEC61496 and UL61496 and are CE marked by TÜV, they are also a global solution for a wide range of challenging machine guarding applications.

SOFTWARE SUMMIT

SEPTEMBER 22 OR 23

Werner Electric Supply and **Rockwell Automation** are joining together to bring you a unique training event. We have taken key sessions from RSTechEd, Rockwell's premier training event, and we are offering them to you locally!

You will see the latest products and strategies for accessing and using critical production and manufacturing data. Best of all, you will understand how many of your current systems you have in place today can produce better results tomorrow.

Sessions are designed to provide a variety of technical content in both hands-on labs and presentation formats. Each session is led by product experts providing the best experience possible.

SEMINAR DETAILS

- **WHEN:**
  September 22nd or 23rd

- **WHERE:**
  Werner Electric Supply
  7450 95th Street South
  Cottage Grove, MN 55016

- **SCHEDULE:**

7:30 - 8:00 am	Registration
8:00 - 9:00 am	Welcome/Key Note Speaker
9:00 - 12:00 pm	Show, Tech Sessions, Labs
12:00 - 1:00 pm	Lunch/Tradeshow
1:00 - 5:00 pm	Show, Tech Sessions, Labs

- **RSVP:**
  RSVP to Angela Schmollinger to sign up for technical sessions and hands on labs.
  Email: aschmollinger@wernerelec.com
  Or Call: 651-769-8137

- **HOTEL ROOMS**
  Need a hotel room? Contact Katie Woolery to get a room at a discounted rate.
  Email: kwoolery@wernerelec.com
  Or Call: 651-769-8133

Visit with other Suppliers and Rockwell Automation specialists during the Software Summit Tradeshow!

Tradeshow will feature not only Rockwell Automation and Werner Electric products and services but Encompass Partner products that will help you with your automation challenges.

Attend Hands on Labs & Technical Sessions Including:

-Manufacturing & Enterprise Network Convergence
-Enterprise Manufacturing Intelligence
-Remote Data Access
-How to best improve your system design efficiency
-Best practices for product implementation

SIGN UP FOR YOUR TECHNICAL SESSIONS AND LABS TODAY AND LET US HELP YOU "TALK TECH"!